



IES INDOOR REPORT

PHOTOMETRIC FILENAME : PTR-14-L45-835-SA.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST]GEN from BALLABS TEST NO. 19272.2

[TESTLAB] BUILDING ACOUSTICS & LIGHTING LABORATORIES, INC

[ISSUEDATE] 01-APR-2015

[MANUFAC] WILLIAMS INDOOR

[OTHER] H.E. WILLIAMS, INC - CARTHAGE, MO

[LUMINAIRE] 2 72 LED 22"ARRAYS 1x4' RECESSED LUMINAIRE

[MORE] WHITE REFLECTOR w/ ACRYLIC RIBBED CENTER DIFFUSER

[MORE] EVERLINE LED DRIVER #D21CC80UNVTZ-D SET @ 78

[LUMCAT] PTR-14-L45-835-SA-xxx-xxx

[LAMPCAT] M700C835D72N2A

[_SEARCH_SOURCETYPE] LED

[_SEARCH_APPLICATION] Indoor, Classroom, Commercial, Industrial, Office, Retrofit

[_SEARCH_MOUNTING] Recessed

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	4662
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	138
Total Luminaire Watts	33.7
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.16
Spacing Criterion (90-270)	1.22
Spacing Criterion (Diagonal)	1.32
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	3.92 ft
Luminous Width (90-270)	1.92 ft
Luminous Height	0.00 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	2039	2156	2277
55	1803	1972	2141
65	1624	1916	2195
75	1242	1922	2420
85	803	2114	2156

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CANDELA TABULATION

	<u>0.0</u>	<u>22.5</u>	<u>45.0</u>	<u>67.5</u>	<u>90.0</u>
0	1735.146	1735.146	1735.146	1735.146	1735.146
5	1726.142	1724.856	1726.142	1726.142	1726.785
10	1693.343	1694.629	1696.559	1699.131	1700.417
15	1618.098	1620.027	1624.529	1632.246	1635.462
20	1573.722	1578.224	1588.514	1600.090	1605.235
25	1452.172	1457.960	1479.826	1487.544	1493.975
30	1330.622	1370.495	1412.941	1480.469	1411.655
35	1197.495	1208.428	1235.439	1262.451	1274.027
40	1087.521	1100.384	1133.183	1166.625	1182.703
45	1006.488	1021.923	1064.369	1105.529	1124.179
50	865.001	883.008	928.670	973.045	991.696
55	722.227	741.521	789.755	837.989	857.283
60	586.528	609.681	661.131	709.365	730.588
65	479.127	506.781	565.305	621.900	647.625
70	351.145	386.517	455.331	519.000	544.082
75	224.450	268.182	347.286	411.599	437.324
80	126.052	183.933	266.253	311.915	324.134
85	48.877	100.327	128.625	129.911	131.197
90	0.000	0.000	0.000	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	625.88	N.A.	13.40
0-30	1312.09	N.A.	28.10
0-40	2096.79	N.A.	45.00
0-60	3615.00	N.A.	77.50
0-80	4533.72	N.A.	97.20
0-90	4662.01	N.A.	100.00
10-90	4498.19	N.A.	96.50
20-40	1470.91	N.A.	31.60
20-50	2280.54	N.A.	48.90
40-70	2073.15	N.A.	44.50
60-80	918.72	N.A.	19.70
70-80	363.79	N.A.	7.80
80-90	128.28	N.A.	2.80
90-110	0.00	N.A.	0.00
90-120	0.00	N.A.	0.00
90-130	0.00	N.A.	0.00
90-150	0.00	N.A.	0.00
90-180	0.00	N.A.	0.00
110-180	0.00	N.A.	0.00
0-180	4662.01	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	163.82
10-20	462.06
20-30	686.22
30-40	784.70
40-50	809.62
50-60	708.59
60-70	554.94
70-80	363.79
80-90	128.28
90-100	0.00
100-110	0.00
110-120	0.00
120-130	0.00
130-140	0.00
140-150	0.00
150-160	0.00
160-170	0.00
170-180	0.00

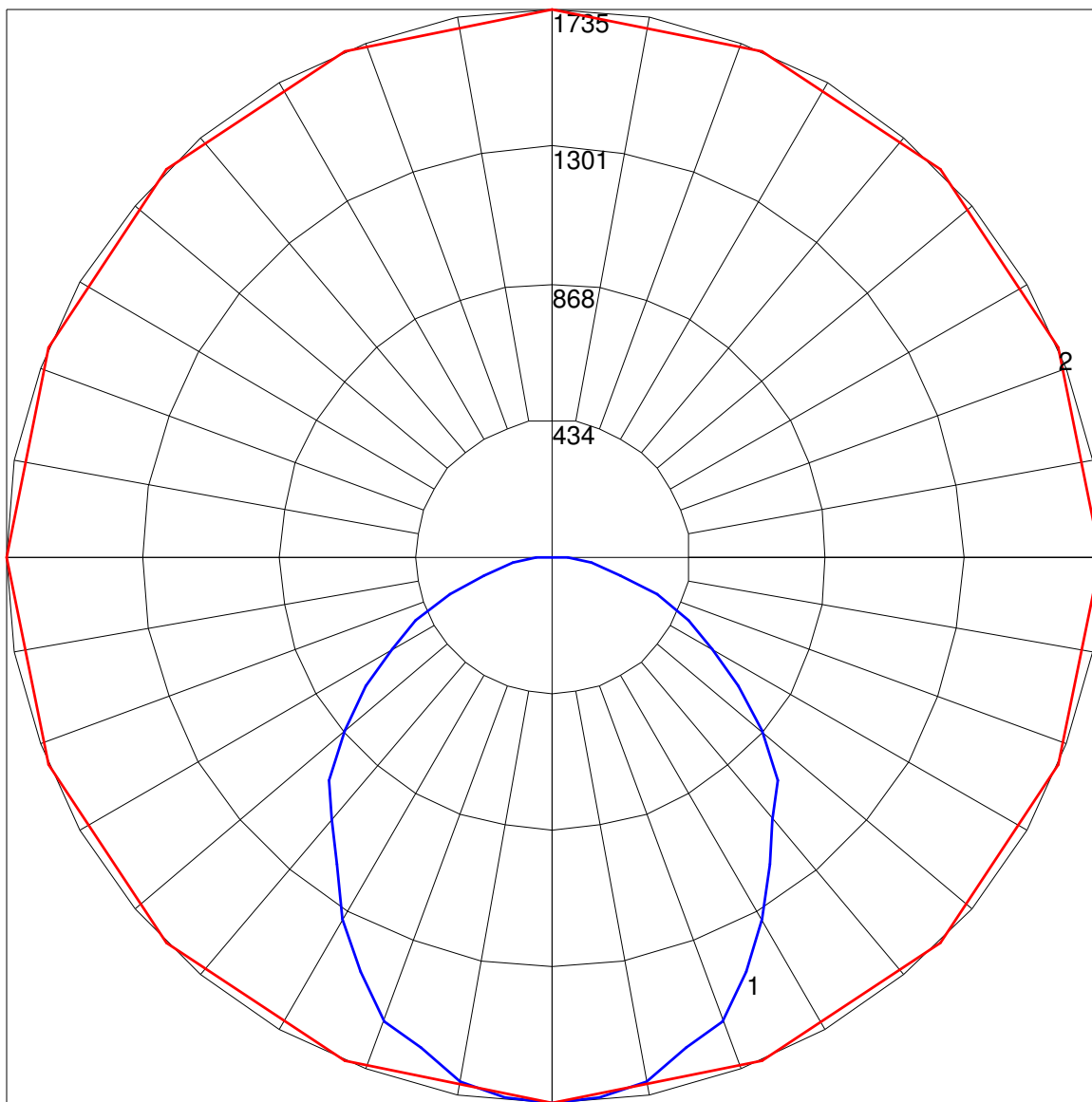
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

Effective Floor Cavity Reflectance 0.20

RC	80				70				50			30			10			0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
0	60	60	60	60	58	58	58	58	56	56	56	53	53	53	51	51	51	50
1	54	52	50	48	53	51	49	47	49	47	45	47	45	44	45	44	43	42
2	49	45	42	39	48	44	41	38	42	40	37	41	38	36	39	37	36	35
3	45	40	35	32	44	39	35	32	37	34	31	36	33	31	35	32	30	29
4	41	35	31	27	40	34	30	27	33	30	27	32	29	26	31	28	26	25
5	38	31	27	24	37	31	27	23	30	26	23	29	25	23	28	25	23	22
6	35	28	24	21	34	28	24	21	27	23	20	26	23	20	25	22	20	19
7	33	26	21	18	32	25	21	18	25	21	18	24	20	18	23	20	18	17
8	30	24	19	16	30	23	19	16	23	19	16	22	19	16	21	18	16	15
9	28	22	17	15	28	21	17	15	21	17	15	20	17	14	20	17	14	14
10	27	20	16	13	26	20	16	13	19	16	13	19	15	13	18	15	13	12

POLAR GRAPH



Maximum Candela = 1735.146 Located At Horizontal Angle = 0, Vertical Angle = 0
1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (0) (Through Max. Cd.)